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| APPLICATION NO.          | FILING DATE                     | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO.     | CONFIRMATION NO. |
|--------------------------|---------------------------------|----------------------|-------------------------|------------------|
| 09/337,675               | 06/22/1999                      | RAJEEV A. JAIN       | 029318/0497 9275        |                  |
| 75                       | 90 08/11/2005                   |                      | EXAMINER                |                  |
| FOLEY & LARDNER          |                                 |                      | TRAN, SUSAN T           |                  |
| 3000 K STREE' WASHINGTON | 1, SUITE 500<br>N, DC 200075109 |                      | ART UNIT                | PAPER NUMBER     |
|                          | ,                               |                      | 1615                    |                  |
|                          |                                 |                      | DATE MAILED: 08/11/2005 |                  |

Please find below and/or attached an Office communication concerning this application or proceeding.

|  | Application No.  | Applicant(s)   | 2                                      |
|--|--|--|--|
| Advisory Action  | 09/337,675   | JAIN ET AL.  |  |
| Before the Filing of an Appeal Brief   | Examiner   | Art Unit   |  |
|  | Susan T. Tran  | 1615   |  |
| The MAILING DATE of this communication appe  | ars on the cover sheet with the c  | correspondence add   | ress                                   |
| THE REPLY FILED 18 July 2005 FAILS TO PLACE THIS APP   |  | -  |  |
| <ol> <li>The reply was filed after a final rejection, but prior to or o<br/>this application, applicant must timely file one of the follo<br/>places the application in condition for allowance; (2) a No<br/>(3) a Request for Continued Examination (RCE) in comp<br/>following time periods:</li> </ol>   | n the same day as filing a Notice o<br>wing replies: (1) an amendment, a<br>otice of Appeal (with appeal fee) in<br>liance with 37 CFR 1.114. The repl | f Appeal. To avoid at<br>ffidavit, or other evid<br>compliance with 37 ( | ence, which<br>CFR 41.31; or           |
| <ul> <li>a)</li></ul>  | isory Action, or (2) the date set forth in th  |  | er is later. In no                     |
| Examiner Note: If box 1 is checked, check either box (a) or (b). MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f  | ).   |  |  |
| Extensions of time may be obtained under 37 CFR 1.136(a). The date on been filed is the date for purposes of determining the period of extension a CFR 1.17(a) is calculated from: (1) the expiration date of the shortened state above, if checked. Any reply received by the Office later than three month earned patent term adjustment. See 37 CFR 1.704(b).  NOTICE OF APPEAL | and the corresponding amount of the fee. atutory period for reply originally set in the  | The appropriate extension final Office action; or (2)                    | on fee under 37<br>as set forth in (b) |
| <ol> <li>The Notice of Appeal was filed on 18 July 2005. A brief i date of filing the Notice of Appeal (37 CFR 41.37(a)), or appeal. Since a Notice of Appeal has been filed, any repl</li> </ol>  | any extension thereof (37 CFR 41.3   | 37(e)), to avoid dismi   | ssal of the                            |
| <u>AMENDMENTS</u>  |  |  |  |
| <ol> <li>The proposed amendment(s) filed after a final rejection,</li> <li>(a) They raise new issues that would require further co</li> <li>(b) They raise the issue of new matter (see NOTE belo</li> <li>(c) They are not deemed to place the application in below appeal; and/or</li> <li>(d) They present additional claims without canceling a</li> </ol>                     | nsideration and/or search (see NO<br>w);<br>tter form for appeal by materially re  | TE below);<br>educing or simplifying                                     |  |
| NOTE: (See 37 CFR 1.116 and 41.33(a)). 4. The amendments are not in compliance with 37 CFR 1.1   | •  | ompliant Amendment   | (PTOL-324)                             |
| 5. Applicant's reply has overcome the following rejection(s  |  | omphant Amenament  | (I TOL-024).                           |
| <ol> <li>Newly proposed or amended claim(s) would be a<br/>the non-allowable claim(s).</li> </ol>  |  | , timely filed amendm  | nent canceling                         |
| 7.  For purposes of appeal, the proposed amendment(s): a) how the new or amended claims would be rejected is pro The status of the claim(s) is (or will be) as follows: Claim(s) allowed: Claim(s) objected to: Claim(s) rejected: 1-22 and 25-54. Claim(s) withdrawn from consideration:  |  | ill be entered and an  | explanation of                         |
| AFFIDAVIT OR OTHER EVIDENCE  |  |  |  |
| <ol> <li>The affidavit or other evidence filed after a final action, be<br/>because applicant failed to provide a showing of good an<br/>and was not earlier presented. See 37 CFR 1.116(e).</li> </ol>  | ut before or on the date of filing a N<br>d sufficient reasons why the affida  | Notice of Appeal will <u>r</u><br>vit or other evidence                  | not be entered is necessary            |
| <ol> <li>The affidavit or other evidence filed after the date of filing entered because the affidavit or other evidence failed to c showing a good and sufficient reasons why it is necessar</li> <li>The affidavit or other evidence is entered. An explanation</li> </ol>  | overcome <u>all</u> rejections under appe<br>y and was not earlier presented. S  | al and/or appellant fa<br>See 37 CFR 41.33(d)(                           | ils to provide a<br>1).                |
| REQUEST FOR RECONSIDERATION/OTHER  |  | ,  |  |
| <ol> <li>The request for reconsideration has been considered bu<br/>see attachment.</li> </ol>   | it does NOT place the application i  | n condition for allowa   | nnce because:                          |
| <ul><li>12. ☐ Note the attached Information Disclosure Statement(s).</li><li>13. ☐ Other:</li></ul>  | (PTO/SB/08 or PTO-1449) Paper  | No(s)  |  |
|  |  |  |  |
|  |  |  |  |

## Response to Arguments

Applicant's arguments filed 07/18/05 have been fully considered but they are not persuasive.

Applicant argues that Desieno does not anticipate the claims because the reference neither expressly teaches the claimed rate controlling polymer, nor does it inherently do so. Contrary to the applicant's argument, Desieno does teach the claimed polymer. Desieno does not expressly call the polymer "the rate controlling polymer", however, Desieno teaches the same polymer being claimed in claim 10 (and thus, claim 1), e.g., polyvinylpyrrolidone and polyethylene glycol (see column 5, lines 1-13), namely, the rate-controlling polymer. Accordingly, Desieno anticipates the claims.

On page 15, lines 2-3, of the remarks, applicant states that "[t]he PTO and Applicant's agree here that Desieno is "silent" about the claimed rate controlling polymer and resultant controlled release nanoparticulate composition." This statement by the applicant is inaccurate. The examiner would like to state for the record that the examiner did not agree that Desieno is "silent" about the claimed rate-controlling polymer. Instead, in the 103(a) rejection over Desieno and Liversidege, in view of Friend, the examiner stated that Desieno does not teach the specific rate-controlling polymer claimed in claims 11 and 12. It is noted that claims 11 and 12 are not rejected under the 102(b) rejection by Desieno. Regarding to the resultant controlled release of the drug for a time period of from about 2 to about 24 hours, it is the position of the examiner that the resultant controlled release of the drug for a time period is inherent, because Desieno uses the claimed polymer in the over coated protective layer, e.g.,

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polyethylene glycol and polyvinylpyrrolidone. Products of identical chemical composition cannot have mutually exclusive properties. A chemical composition and its properties are inseparable. Therefore, if the prior art teaches the identical chemical structure, the properties applicant discloses and/or claims are necessarily present. *In re Spada*, 911 F.2d 705, 709, 15 USPQ2d 1655, 1658 (Fed. Cir. 1990).

Applicant argues that the PTO specifically relied upon passages within Desieno that not only do not support the rejection, but they also undermine the necessity element that is central to applying the doctrine of anticipation by inherency. Applicant further states that: what worse support could exist for the proposition of the overcoat polymer conferring a controlled release property than the reference itself stating precisely the contrary. In response to applicant's argument, it is not necessary for the prior art to show each and every property of the claimed product (see *In re Best*, Bolton and Shaw (CCPA) 195 USPQ 430, 10/13/1977). As discussed above, a chemical composition and its properties are inseparable. Therefore, if the prior art teaches the identical chemical structure, the properties applicant discloses and/or claims are necessarily present. In re Spada, 911 F.2d 705, 709, 15 USPQ2d 1655, 1658 (Fed. Cir. 1990). Applicant has not shown that the invention taught by Desieno does not have the claimed release period. The PTO can require an applicant to prove that the prior art products do not necessarily or inherently possess the characteristics of his [or her] claimed product. Whether the rejection is based on inherency' under 35 U.S.C. 102, on prima facie obviousness' under 35 U.S.C. 103, jointly or alternatively, the burden of proof is the same. The burden of proof is similar to that required with respect to

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product-by-process claims. *In re Fitzgerald*, 619 F.2d 67, 70, 205 USPQ 594, 596 (CCPA 1980) (quoting In re Best, 562 F.2d 1252, 1255, 195 USPQ 430, 433-34 (CCPA 1977)).

Applicant argues that Desieno suggests that the disclosed compositions rapidly release the nanoparticulate active agents, e.g., in 10 minutes, which is much quicker than the claimed range of about 2 to about 24 hours. See Desieno at column 17, lines 55 to column 18, lines 1-3. However, the test to determine the ease of reconstituting particles cannot conclude to be equivalent with the test to determine the release rate for the following reasons:

- 1) the drug was vortex for 10 second;
- 2) the drug was shook at 300 RPM for 10 minutes; and
- 3) the procedure did not indicate that after shaking the drug for 10 minutes, the sample is pipette immediately.

Applicant argues that Vernon discloses a drug that is suspended in a polymer matrix of at least two water-soluble and biodegradable polymers. Thus, Vernon does not suggest that the drug is poorly soluble, that it is in nanoparticulate form, and that at least one surface stabilizer is associated with the surface of the drug nanoparticulate. In response to the applicant's argument, it is noted that the limitation "water-soluble" disclosed by Vernon is referred to the polymer, not the drug. Nowhere in Vernon is the disclosure of the drug is water-soluble found. Regarding to the nanoparticulate limitation, Vernon teaches microparticulate having sizes that fall within the claimed particle size. Accordingly, Vernon does teach nanoparticle.

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Correspondence

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Susan T. Tran whose telephone number is (571) 272-

0606. The examiner can normally be reached on Monday through Thursday 6:00 am to

4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Thurman K. Page can be reached on (571) 272-0602. The fax phone

number for the organization where this application or proceeding is assigned is 571-

273-8300.

Information regarding the status of an application may be obtained from the

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THURMAN K. PAGE SUPERVISORY PATENT EXAMINER TECHNOLOGY PATENT 1600

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